

We claim:

1. A method for controlling overload of a data processing system, comprising:
  - 5 a) monitoring a load of said data processing system, whereby parameters for a degree of utilisation of resources of said data processing system are determined, and
  - b) running an overload operation mode (OOM) of said data processing system, including the steps of
  - 10 d. feeding said parameters into a fuzzy logic expert system, which comprises a fuzzy rule base having rules and associated fuzzy logic variables,
  - e. identifying important rules among said rule base in accordance with said parameters via said fuzzy logic expert system, and
  - 15 f. calculating values for the fuzzy logic variables, which are associated with the important rules, and
  - g. handling the overload based on the identified rules and the calculated values of said associated fuzzy logic variables.
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2. The method according to claim 1, further comprising:
  - 25 running a normal operation mode (NOM) of said data processing system,
3. The method according to claim 2, further comprising:
  - monitoring the load of said data processing system, including the steps of
  - e) determining parameters for said degree of utilisation of
  - 30 resources of said data processing system in both the normal operation mode and the overload operation mode, and

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- f) feeding said parameters into said fuzzy logic expert system.
  - g) determining additional application specific parameters, which refer to the degree of utilisation of resources by applications running on said data processing system, in the overload operation mode, and
  - h) feeding said application specific parameters into said fuzzy logic expert system.
4. The method according to claim 3, further comprising:
- a) determining an overload level via said fuzzy logic expert system based on said parameters and/or said application specific parameters, and
  - b) using said overload level as criterion for switching between the normal operation mode (NOM) and the overload operation mode (OOM).
5. The method according to one of the claims 1 to 3, wherein the monitoring of the load of said data processing system is performed according to a clock rate, which is higher in the overload operation mode than in the normal operation mode.
6. The method according to one of the claims 1 to 5, wherein the degree of utilisation of at least one of the following resources is monitored: CPU load, memory utilisation, I/O load.
7. A data processing system comprising means for running a method according to one of the claims 1 to 6.